

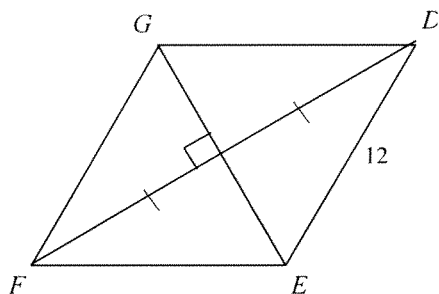
5.1-5.3 Practice Quiz

Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. (2 points)

The length of \overline{DE} is shown. What other length can you determine for this diagram?

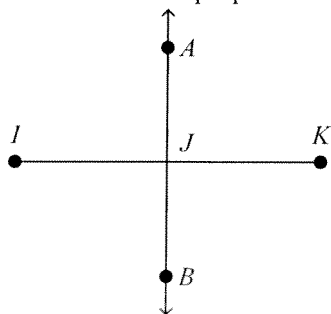


- a. $EF = 12$
- b. $DG = 12$
- c. $DF = 24$
- d. No other length can be determined.

2. (2 points)

Which statement can you conclude is true?

Given: \overleftrightarrow{AB} is the perpendicular bisector of \overline{IK} .

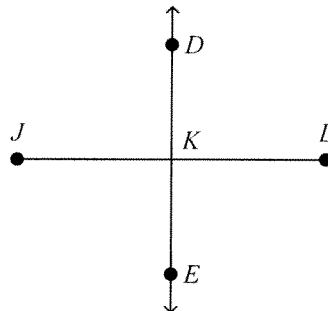


- a. $AJ = BJ$
- b. $\angle IAJ$ is a right angle.
- c. $IJ = JK$
- d. A is the midpoint of \overline{IK} .

3. (2 points)

Which statement is **not** necessarily true?

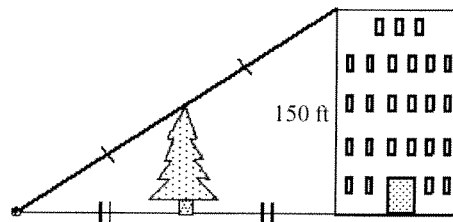
Given: \overleftrightarrow{DE} is the \perp bisector of \overline{JL} .



- a. $DK = KE$
- b. $\overline{DE} \perp \overline{JL}$
- c. K is the midpoint of \overline{JL} .
- d. $DJ = DL$

4. (2 points)

Determine the height of the tree.

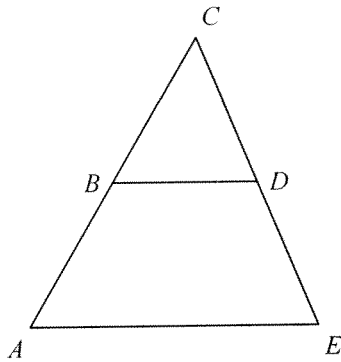


- a. 75 ft
- b. 150 ft
- c. 35.5 ft
- d. 37.5 ft

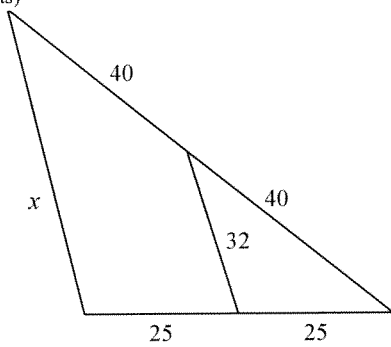
Short Answer

5. (3 points)

B is the midpoint of \overline{AC} , D is the midpoint of \overline{CE} , and $AE = 21$. Find BD . The diagram is not to scale.

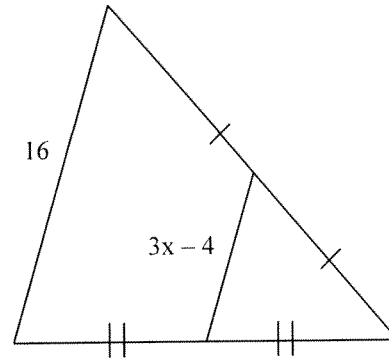


6. (3 points)



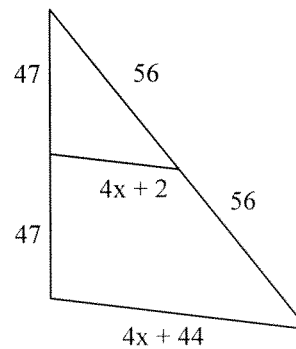
7. (3 points)

Find the value of x .



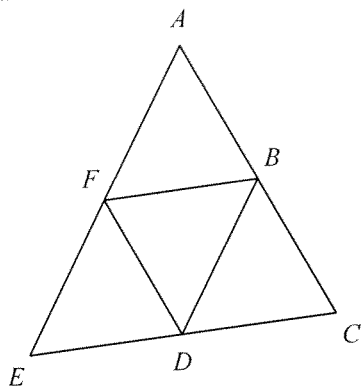
8. (3 points)

Find the length of the midsegment. The diagram is not to scale.



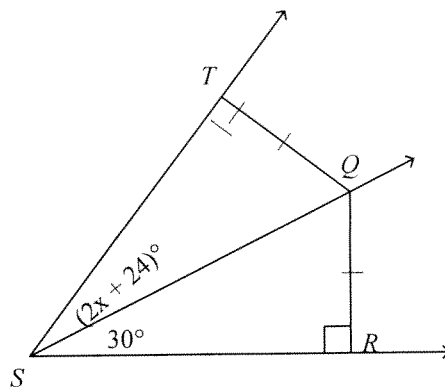
9. (4 points)

Points B , D , and F are midpoints of the sides of $\triangle ACE$. $EC = 30$ and $DF = 23$. Find AC . The diagram is not to scale.



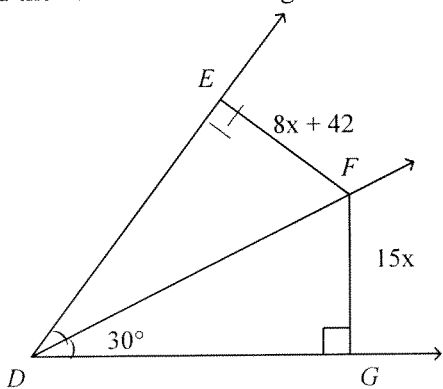
11. (3 points)

Find the value of x . The diagram is not to scale.



10. (3 points)

Find the value of x . The diagram is not to scale.



12. (4 points)

Find FG . The diagram is not to scale.

